

HOTEL BATHROOM LIGHTS CONSUME THE MOST ELECTRICITY

Typically, bathroom lights are left on between five to eight hours per occupied day in hotels. Sometimes people leave the bathroom light on at night as a guide. Sometimes people don't turn off the bathroom light when they leave the room and it is left on until the maid service arrives.

The WN-100 Motion Sensor Nightlight from The Watt Stopper is a motion sensing wall switch and nightlight that controls lighting based on occupancy. Designed for installation in hotel rooms, and institutional and other semi-public spaces, the nightlight remains on whenever lights are off, providing constant illumination in the space and energy savings through reduced usage of overhead lighting.

This project stimulated development of the Motion Sensor Nightlight, and monitored and analyzed data from a 400-room installation in the Doubletree Hotel in Sacramento.



The nightlight has the potential to save from 45 to 75 percent of the total energy used by bathroom light fixtures.

MOTION SENSOR NIGHTLIGHT STUDY

*A MOTION SENSING WALL SWITCH AND NIGHTLIGHT
INSTALLED IN MORE THAN 400 HOTEL BATHROOMS
THAT CONTROLS LIGHTING BASED ON OCCUPANCY.*

*BASED ON THE RESULTS OF THIS STUDY, THE
NIGHTLIGHT PROVIDED 46 PERCENT ENERGY
SAVINGS AND RECEIVED POSITIVE COMMENTS FROM
CUSTOMERS STAYING AT THE HOTEL.*



*The Motion Sensor Nightlight helps save energy
and provides security benefits.*

The electricity saved could be in excess of six hours per room per occupied day. For hotels and institutional spaces where the main bathroom lights are connected to high wattage fixtures, the payback for the technology can be as short as one year.

LIGHTING CONTROL AND INCREASED SAFETY



The Motion Sensor Nightlight

Features

- Built-in nightlight illuminates room whenever overhead lights are off
- Energy-efficient, super-bright LED
- Designed for hotel rooms and institutional spaces
- 120 volts, 60 Hz operation
- Terminal style wiring simplifies installation
- Adjustable time delay from 15 minutes to two hours
- 180° coverage, maximum of 300 sq ft
- Manual-ON or Auto-ON operation
- Impact resistant hard lens
- Five year warranty; UL and CUL listed

INTERESTED?

Hotel and institutional owners/managers, contractors, design engineers, building scientists, code developers, and utility staff can use the information on improved lighting controls in hotel bathrooms.

Key next steps include:

- Educate hotel and institutional owners/managers
- Find buildings with high wattage fixtures that would be ideal early adopters of this technology
- Demonstrate standard bathroom lighting usage by patrons in different hotel types

To purchase the nightlight, visit The Watt Stopper web site: www.wattstopper.com. Rebates may be available from the manufacturer or local utility company.

This project was part of the PIER Lighting Research Program. To view the Doubletree Hotel study results, as well as other current research activities, visit <http://www.energy.ca.gov/pier>.

Additional information about this technology can be found on the following web sites:

- PIER Lighting Research Project #4.1 -- Hotel and Institutional Bathroom Lighting
http://www.archenergy.com/lrp/advlight_luminaires/project_4_1.htm
- Lawrence Berkeley National Laboratory
<http://lighting.lbl.gov/projects/hotel/Hotel.htm>



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A SMART AND ENERGY
EFFICIENT NIGHTLIGHT

